

GREAT SALT LAKE MINERALS & CHEMICALS CORPORATION  
A SUBSIDIARY OF GULF RESOURCES & CHEMICAL CORPORATION  
P.O. BOX 1190 • 765 N. 10500 W. LITTLE MOUNTAIN • OGDEN, UTAH 84402 TEL. (801) 731-3100 • TWX (910) 971-5910

To Pam  
File ACT/057/002

MAX J. REYNOLDS  
VICE PRESIDENT OPERATIONS

January 14, 1985

Mr. Ronald W. Daniels  
Acting Administrator  
State of Utah Natural Resources  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

RECEIVED  
JAN 16 1985  
DIVISION OF  
OIL, GAS & MINING

Dear Mr. Daniels:

Enclosed please find:

1. Revised Annual Operations and Progress Report.
2. Revised GSL drawings Nos. 800-11-05-019 and 800-11-05-020 which show pits with any acreage changes from that filed March 1, 1984.

All other documents previously filed remain unchanged.

Respectfully,

  
Max J. Reynolds

MJR:na

Enclosures



RECEIVED  
JAN 16 1985

ANNUAL OPERATIONS AND PROGRESS REPORT

DIVISION OF  
OIL, GAS & MINING

From Month/Year Jan 1984  
to Month/Year Jan 1985

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
(801) 538-5340

OPERATOR: GREAT SALT LAKE MIN & CHEM CORP MINE NAME: Same

ADDRESS: 765 NORTH 10500 WEST  
OGDEN UTAH 84404

PERMIT NUMBER AND DATE OF PERMIT: ACT/057/002 SEPT 2, 1983

REPRESENTATIVE: M J REYNOLDS

SECTION(S): AS PREVIOUSLY FILED - NO CHANGES TOWNSHIP(S):  RANGE(S):

MINERAL(S) MINED: GRAVEL, ROCK

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: No Changes

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: None

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.



Disturbance

Acreage

Pit  
Roads  
Facilities  
Waste Dumps  
Other

161  
Included Above  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) Tabulation of acreage affected to date (by years).

Date by Year

Acreage (Total

1975  
1976  
1977  
1978  
1979  
1980  
1981  
1982  
1983  
1984

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
91  
141.3 (9 leased)  
161 (9 leased)

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	Area			
	1	2	3	etc.
Acreage of Area	_____			
Depth of Topsoil Removal (inches)	_____			
Depth of Topsoil Replacement (inches)*	_____			
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)	_____			
Volume Actually Salvaged (yd <sup>3</sup> or ac ft)	_____			
Volume Required for Reclamation (yd <sup>3</sup> or ac ft)	_____			
Surplus or Deficit Volume (yd <sup>3</sup> or ac ft)	_____			
Storage Status (short- or long-term)	_____			



Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location				
Area Where Soil Has Been Used (if not stored)				
Running Total (all stockpiles) (yo <sup>3</sup> or ac ft)				
Short-term				
Long-term				

\*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)		
(Milled)		

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.


2. Roads.




3. Diversion ditches, collector ditches, interceptor ditches, etc.

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4. Culverts.

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5. Sediment ponds, containment ponds.

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6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).

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7. Topsoil stockpiles.

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(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

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2. Subsidence.

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3. Accidental water discharge, dam failure, etc.

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4. Slumping, sliding or erosion.

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5. Revegetation problem areas.

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6. Existence and location of unsuitable (toxic) overburden.

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RECLAMATION:

*Note: The rising Lake Level inundated sections of borrow pits as shown on drawings.*

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

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2. Topsoiled areas.

Area

Acreage

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3. Seeded areas.

<u>Area</u>	<u>Acreage</u>

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	
1984	

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.


2. Type of seed (species) used for seeding during the report period.




3. Date of seeding during the report period.

Spring \_\_\_\_\_  
\_\_\_\_\_  
Fall \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Type and rate of fertilizer applied.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Type and rate of mulch applied.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



10. Soil analysis results.

(d) Description of results of previous revegetation efforts, including:  
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

2. Types (species) of seed that are not growing successfully.

3. Areas experiencing problems with weeds and weed types.

4. Significant erosional problems.

5. Areas of unsuitable overburden on the surface as related to revegetation failure.

6. Procedures used or proposed to correct these problems.



7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

8. Results of soil analysis.


(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	\$ <u>250,000</u>	<u>SURETY</u>	<u>MARCH 11, 1983</u>



Increased disturbance, if any:

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Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).



APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
  - A. Map title.
  - B. Name and address of permittee.
  - C. Permit and amendment numbers.
  - D. Annual report period.
  - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
  - A. Legal subdivisions.
  - B. Permit area boundary clearly shown and labelled.
  - C. Amendment areas clearly shown and labelled.
  - D. Contour features.
5. The following features should all be clearly identified:
  - A. Topsoil stockpiles (numbered and with volumes).
  - B. Settling ponds and sediment control structures.
  - C. Haul roads.
  - D. Pits identified by location, name, number, etc.
  - E. Ramps (numbered).
  - F. Out-of-pit spoil dumps.
  - G. All waste disposal sites including, but not limited to:
    1. Landfill sites.
    2. Carbonaceous waste dumps.
  - H. Diversion ditches.
  - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.